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L10: Entry 7 of 12

File: DWPI

Aug 6, 2003

DERWENT-ACC-NO: 2001-481186  
DERWENT-WEEK: 200412  
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TITLE: Electrical boiler by using thermal oil

INVENTOR: LEE, J P

PATENT-ASSIGNEE:

ASSIGNEE

CODE

LEE J P

LEEJI

PRIORITY-DATA: 2000KR-0070227 (November 24, 2000)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> KR 393917 B	August 6, 2003		000	F24H001/20
<input type="checkbox"/> KR 2001008335 A	February 5, 2001		001	F24H001/20

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR 393917B ✓	November 24, 2000	2000KR-0070227	
KR 393917B		KR2001008335	Previous Publ.
KR2001008335A	November 24, 2000	2000KR-0070227	

INT-CL (IPC): F24 H 1/20

ABSTRACTED-PUB-NO: KR2001008335A

## BASIC-ABSTRACT:

NOVELTY - An electrical boiler by using thermal oil is provided to quickly heat and supply warm water by installing water pipes prepared with an electric heater inside a boiler main body storing thermal oil in a zigzag fashion in plural layers and heating cold water through heat exchange between the electric heater and thermal oil while flowing to an upper outlet hole.

DETAILED DESCRIPTION - A boiler main body(100) stores thermal oil inside. An electric heating device(200) installed at the bottom in the boiler main body heats the thermal oil. Water pipes(300) are arranged in plural layers to be communicated with an inner part of the boiler main body in a zigzag fashion. The water pipe is prepared with a venting hole(2) and an inlet hole(3) on upper and lower parts. An electric heater(400) installed inside an electric water pipe(300) heats the water

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Abstract  
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inside the water pipe. Accordingly, a heating effect is improved by circulating the thermal oil in the water pipe and heating through the electric heater.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: ELECTRIC BOILER THERMAL OIL

DERWENT-CLASS: Q74

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